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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/695,477	10/28/2003	Alex Fishman	15436.253.73.1.1	5594	
7.	590 06/23/2005		EXAMINER		
Fraser D. Roy			TSAI, CAROL S W		
WORKMAN NYDEGGER 1000 Eagle Gate Tower			ART UNIT	PAPER NUMBER	
60 East South Temple			2857		
Salt Lake City,	UT 84111		DATE MAILED: 06/23/200	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

				18		
		Application No.	Applicant(s)	U		
Office Action Comment		10/695,477	FISHMAN ET AL.			
Onice A	Action Summary	Examiner	Art Unit			
		Carol S. Tsai	2857			
The MAILIN Period for Reply	G DATE of this communication app	ears on the cover sheet with the c	orrespondence address			
THE MAILING DA - Extensions of time may after SIX (6) MONTHS - If the period for reply sp - If NO period for reply is - Failure to reply within th Any reply received by the	TATUTORY PERIOD FOR REPLY TE OF THIS COMMUNICATION. be available under the provisions of 37 CFR 1.13 from the mailing date of this communication. excified above is less than thirty (30) days, a reply specified above, the maximum statutory period was set or extended period for reply will, by statute, the Office later than three months after the mailing ustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication D (35 U.S.C. § 133).	ı.		
Status						
1) Responsive	to communication(s) filed on 28 Oc	ctober 2003.				
	This action is FINAL . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	5					
4a) Of the ab 5)⊠ Claim(s) <u>1-2</u> 6)□ Claim(s) <u></u> 7)⊠ Claim(s) <u>1-7</u>		vn from consideration.				
Application Papers						
9)⊠ The specifica	ition is objected to by the Examine	r.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may	not request that any objection to the o	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
	drawing sheet(s) including the correcting the correction is objected to by the Ex	•	·	I).		
Priority under 35 U.S	.C. § 119					
a) All b) 1. Certifi 2. Certifi 3. Copie	nent is made of a claim for foreign Some * c) None of: ed copies of the priority documents ed copies of the priority documents s of the certified copies of the prior ation from the International Bureau ned detailed Office action for a list	s have been received. s have been received in Applicati ity documents have been receive ı (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(s)			·			
	n's Patent Drawing Review (PTO-948) e Statement(s) (PTO-1449 or PTO/SB/08)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		-		

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DETAILED ACTION

Claim Objections

1. Claims 1-7, 9-11 and 15-19 are objected to because of the following informalities:

In claim 1, line 5, "unknown propagation delay," should read

- - unknown propagation delay; - -.

In claim 9, line 16, "generating steps;" should read

- - generating steps; and - -.

In claim 15, line 14, "generating steps;" should read

- - generating steps; and - -.

Appropriate correction is required.

Specification

2. The use of the trademark (see pages 2 and 8-11) has been noted in this application. It should be capitalized wherever it appears and be accompanied by the generic terminology.

Although the use of trademarks is permissible in patent applications, the proprietary nature of the marks should be respected and every effort made to prevent their use in any manner which might adversely affect their validity as trademarks.

Conclusion

This application is in condition for allowance except for the following formal matters:
 Objections to claims and Specification.

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Prosecution on the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Alvarez, III et al. disclose a method and apparatus are disclosed for acquiring transmit synchronization at a secondary station with the periodic frame reference bursts from a reference station in a TDMA network in an improved manner to enable the use of full power initial acquisition bursts while also reducing the bandwidth required to complete the initial acquisition operation.

Carbrey discloses a loop network in which the ports have access to time slots on each of two buses.

Fuhrmann et al. disclose a process for reducing the amount of overhead data in ATM cell headers prior to transmission both upstream and downstream on an HFC cable plant or other transmission media using SCDMA on at least the upstream path, without loss of either IP or Ethernet addressing information.

Drinkard et al. disclose a clockless time-of-flight interval timer including a tapped delay line register comprising N buffers that each contribute a substantially identical incremental time delay.

Kikuchi et al. disclose a transponder which may form part of communication

device such as an optical transmitters device includes an optical receiver for receiving a high speed optical information signal and for converting the high speed optical information signal to an electrical signal, a demultiplexing circuit for separating the electrical signal into a plurality of low speed information signals, a plurality of optical transmitters each of which converts one of the low speed electrical signals into an optical signal of mutually different wavelengths, and a propagation delay difference compensating circuit.

Rakib et al. disclose a system for bidirectional communication of digital data between a central unit and a remote unit wherein the need for tracking loops in the central unit has been eliminated.

Dent discloses an apparatus and method for ciphering traffic exachanged in both directions between a satellite/cellular telephone and a ground station networkusing an orbitial satellite.

Allowable Subject Matter

- 5. Claims 1-20 are allowed.
- 6. The following is a statement of reasons for the indication of allowable subject matter:
- U. S. Patent No. 6,851,086 to Szymanski is the reference closest to the claimed invention. Szymanski discloses a system for measuring a signal propagation delay, said system being adapted to electrically communicate with at least one transmitter and at least one receiver, said system comprising: a first bit sequence generator used to generate a first sequence of bits that is to be transmitted through an object with an unknown propagation delay, a second bit sequence generator that receives said first sequence of bits from said object, said second bit

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sequence generator generating a second sequence of bits identical to said first sequence. However, Szymanski does not teach a controller that receives said first and second sequences of bits, said controller compares said sequences to confirm that said sequences are identical, instructs said first bit sequence generator to inject a predefined bit error into a third sequence of bits while simultaneously starting a clock count from a clock source, maintains said count that is incremented each time said controller checks for said bit error, stops incrementing said count when said bit error is detected, and computes said propagation delay by reference to said count; and including all of the other limitations in the respective independent claims.

Contact Information

7. Any inquiry concerning this communication or earlier communications
from the examiner should be directed to Carol S. W. Tsai whose telephone number is (571) 2722224. The examiner can normally be reached on Monday-Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's 'supervisor, Marc S. Hoff can be reached on (571) 272-2216. The fax number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 886-217-9197 (toll-free).

Carol S. W. Tsai Primary Examiner Art Unit 2857

Cal SW. Z'

cswt June 14, 2005